Some twenty years ago a Danish scientific expedition paid two visits to the Persian Gulf to report on the fish found in it. They discovered that there were over 400 species. 114 136

AGRICULTURE

Parts of Bahrain have always been fertile and very probably in ancient times more land was under cultivation than is being used today. The gardens of Bahrain are mentioned by many ancient visitors to the islands. The captains of Alexander's ships described Tylos, the ancient name of Bahrain, as "well-wooded and productive" while Idrisi, writing in the 12th century, says that the "capital of Awal (Bahrain Island) is Bahrain; this is a town well populated whose environs are fertile and produce corn and dates in abundance." It could be that the capital of Bahrain mentioned by Idrisi was Bilad al-Qadim, the description would seem to imply this. 311 361

Formerly the Bahrain gardens were irrigated from natural springs and surface wells, the water either flowing from the springs into the gardens or being lifted from wells to the level of the land by various forms of water scoops. The most commonly used is the Shaduf. A man stands near the edge of the well and draws up the water in a sheep skin bag attached by ropes to a counter-balanced pole. In larger wells donkeys or oxen are used, walking endlessly up and down a ramp pulling the water to the surface from where it runs down into irrigation channels. As the rainfall in Bahrain is almost negligible all agriculture depends upon irrigation. 312

In the 20's and 30's Major Frank Holmes drilled many artesian wells in Bahrain which completely changed Bahrain's system of irrigation. By introducing these wells into the island Major Holmes did much to increase the area of land which could be cultivated, but artesian wells turned out to be a mixed blessing, for in the following years so many wells were drilled that the water head went down and some of the gardens in the south of Bahrain dried up. Today this problem is being met by a government Water Committee which decides whether and under what conditions new wells may be drilled, it tries to ensure that the water resources of the islands are maintained at their present level or even increased by the utilisation of the many large springs of fresh water which lie under the sea around the shores of Bahrain. 312 647 653

The two commonest crops in Bahrain are dates and lucerne (alfalfa), the latter is often grown in the shade of the date palms where its vivid greenness provides a contrast to the brown and grey-green of the date palms. There is little good fruit in Bahrain although a certain number of fruit trees are cultivated, these include citrus, tamarind, pomegranate, fig, guava, terminalia (indian almond) mango, bananas, grapes and kanard (a small apple-like fruit). European vegetables are grown in the cold weather and other ground crops include sweet potatoes, melons, tomatoes, ladies fingers, egg plants, onions, garlic and pumpkins. 241

241 565 461 Almost all the cultivators are Baharna or Hassawis, who are of the Shiite sect, descendants of Baharna who emigrated to Arabia. The Sunni Arabs do not work in the gardens. The people living in the villages which are scattered among the date gardens originally earned their livelihood entirely by working in the gardens; now many of them are employed by the oil company or in Manama. During the date [221] picking season, which in many ways resembles the hop picking season in England, temporary villages of palm branch huts spring up among the date gardens when people from other parts of Bahrain come to p..k the crop.

565 The village people are the aboriginal inhabitants of the country and in the past they suffered much during the many invasions of Bahrain when their homes, gardens and water channels were destroyed and even in times of peace they were regarded as milch cows, whose wealth was extracted by their rulers. But in recent times their position has changed, they are more prosperous than they used to be and are on terms of equality with their neighbours.

BOAT BUILDING

174 It is claimed by some authorities on Middle Eastern history that the Phoenicians originated in Bahrain and sailed their craft up the Gulf, which then extended much farther northwards than it does today. and following the Euphrates to the point where the river is nearest to the Syrian coast, they landed and settled there. This may or may not be true but there is no doubt that the people of Bahrain have been sailors for at least as many centuries as the pearl industry has been in existence and their stitched boats not only sailed the Persian Gulf but entered the Indian Ocean.

501 396 Most of Bahrain's boats were in former days employed as pearlers, and although the Kuwait shipyards built the largest craft it was natural that Bahrain, nearer the Indian source of timber and itself the centre of the pearling industry, should have its own yards. It should also be remembered that Kuwait is a comparatively modern town, having been founded early in the 18th century, before which date it did not attain importance as a harbour for north-east Arabia.

Today most of the boat building is carried on in Muharraq, although there are some yards at the western end of Manama. In former days, before iron nails were obtainable, Arab boats were not nailed but stitched together, with a giant needle and cord as thread, yet these boats of such fragile construction were able to weather the heaviest gales that swept the Gulf and the Indian Ocean.

In recent years launches have been made in greater numbers than sailing boats, so builders have inclined to specialise in the construction of those boats to which engines can best be fitted. For this reason many "jalibuts" have been built, they can be identified by their vertical bow and the straightness of the keel. The origin of this name is doubtful and many suggestions have been made to explain it. Possibly

5: Bahrain G-5 (1926-1937) 1937 MZ2 Bahrain MZ2

Ruler's house at Sakhir with the exchange by means of a line from Manamah through the Bahrain Petroleum Company's exchange. Telephonic communication now exists over a great part of the islands; from the aerodrome in Muharraq it is possible to talk to steamers lying off Sitra, as a submarine cable was laid by the Bahrain Petroleum Company to the Sitra anchorage, or to distant points on the oil field far down at the south end of the island. 206

At the end of 1355 (1936-37) there were 40 telephone subscribers, and it is expected that during the next year this number will increase to 60. The trunk line to the Bahrain Petroleum Company's Camp was duplicated in order to deal with the increased traffic. The possibility of installing an automatic switchboard (100 lines) is now under consideration. The advantages would be the elimination of operators and the language difficulties and the prevention of listening-in.

SUMMARY OF SEVEN YEARS' WORKING

Year.	Units Generated.	Units Sold.	Revenue Rs	Connected Load in Kw.
1349 (1930-31) ...	88,080 ...	47,340 ...	20,750/- ...	102
1350 (1931-32) ...	111,367 ...	65,813 ...	22,486/- ...	46
1351 (1932-33) ...	120,629 ...	79,550 ...	27,463/- ...	23
1352 (1933-34) ...	134,744 ...	83,241 ...	30,987/- ...	9
1353 (1934-35) ...	147,050 ...	100,449 ...	36,797/- ...	16
1354 (1935-36) ...	163,751 ...	116,440 ...	43,828/- ...	27
1355 (1936-37) ...	232,320 ...	151,255 ...	60,108/- ...	58

The revenue figures are shown to the nearest rupee.

AGRICULTURE

Until a few years ago agriculture in Bahrain consisted of cultivating dates and lucerne fairly extensively and growing citrus fruit and a few poor vegetables such as onions, tomatoes, radishes, and melons. In 1930 the Government attempted to encourage agriculture by employing an agricultural expert from Iraq, but owing to lack of funds his services were dispensed with before he could make much progress. 241

The encouragement of agriculture presents many difficulties. Bahrain Arabs regard all agricultural work as derogatory; I have never met one who worked in a garden or a date grove. All the cultivators are Shia aboriginals or Hasawis imported from the mainland as labourers. This feeling against working on the land, and also the question of land tenure have, I believe, restricted the increase of agriculture during the last century. There is ample evidence to show that in the past a great deal more land was cultivated than is to-day. The people who do work on the land are intensely conservative and view all methods except their own with dislike and suspicion. 461

Land Tenure. Most of the open cultivatable land, which is along the coast, is claimed by the Ruling Family, who make no use of it themselves, but prevent the Baharna from extending their existing gardens. In the past, Shaikh Sir Isa was in the habit of issuing papers to various of his relations, gifting to them whole districts of Bahrain. These 'hiba' documents, which were often written on scraps of paper, included large areas described as 'sehat,' containing roads, villages, springs, privately owned property as well as open land. The Shaikhs who acquired 'hibas' enjoyed feudal rights over the territories which were mentioned in their documents, and in the past they were allowed to make what they could out of them by independent taxation of the people living in the villages, by employing forced labour and by using open land as grazing grounds for the animals which they used to own before the days of motor cars. When the 'hiba' system began, long before the introduction of artesian wells, the possibility of increased cultivation was not visualised, but now the holders of 'hibas' 471 643 423

3:Royal Institute of International Affairs U-4 (no date)1954 M1 Middle East
Bahrain M22
Kuwait M11
Saudi Arabia M31

K SA 471 648 companies may need to be defined now that one concessionaire seems likely to create revenue; problems may also arise if, as a result of oil developments, it is planted with a population that will need to be endowed with public services and, no doubt, with a system of taxation.

BAHRAIN

B 131 The Bahrain Archipelago is a group of islands in the Gulf of Bahrain, which is bounded on the east by the Qatar Peninsula and on the west by the mainland coast of al-Hasa. Its total area is 213 square miles. The principal island—Bahrain itself—is B about thirty miles long and ten miles wide. It is low-lying and its 312 northern end is well watered by fresh water springs and pro- 341 duces good date crops. Citrus fruit and lucerne are also grown. 135 The oilfields lie round the rocky cluster of hills known as Jebel Dukhan (Hill of Smoke), which is in the barren centre of the B island.

491 To the north-east of Bahrain Island, and joined to it by a 504 causeway and motor road, is the low, sandy island of Muharraq, and between the two islands is a good deep-water harbour 712 (Khor Kaliya). It is used as a small British naval base; an American admiral also flies his flag there. Nearby there is a B second, but shallow harbour (Bahrain harbour), which faces 508 north and is usefully equipped. The natural aerodrome on 509 Muharraq Island has been developed into the largest commercial airfield in the Persian Gulf and now serves the airliners B of all nations. It is also used by the RAF, and the whine of jet 133 aircraft is a commonplace. The south end of the island of 132 Bahrain is low-lying and sandy. The climate, though oppressive in summer owing to the prevalent heat and damp of the western B shores of the Persian Gulf, is more humid and less windy than 161 that of Kuwait. The population of the Archipelago was 109,650 when a census was taken in 1950.[1]

B 361 The capital and the seat of government is the port of Mana- 161 ma.[2] It is generally referred to as Bahrain, and is situated between the two harbours. It has a population of 39,648, which 162 includes many rich Arab, Persian, and Indian merchants, as well as some 300 Europeans and Americans. The second town, Muharraq, on Muharraq Island, has a population of 24,566 which is purely Arab.

B 361 The British Political Agency is in Manama town, which also boasts an electricity station, a wireless station, post offices, hospitals, clubs, public gardens, and up-to-date schools. The town is well supplied with good motor roads, and there are

[1] 1952 estimate, 115,000. [2] Population: 1950, 39,648; 1952 (estimate), 45,000.

THE COMPANY'S

refinery on the eastern side of the island, opposite Sitra. It was expanded in 1945, and 80 to 85 per cent of the crude oil processed is now obtained by pipeline from Saudi Arabia. The refined petroleum products are pumped to storage tanks on Sitra Island, and subsequently to a deep-water loading terminal 3 miles offshore. Over 6,000 Bahrainis, as well as some 1,600 British and Americans, are employed in different branches of the industry. Two thirds of the royalties accrue to the Bahrain government, half of which are utilized for capital expenditures designed to raise the standards of living of the people. Reports for 1951 indicate that 68 per cent of the government income was derived from oil revenues, as against 26 per cent from customs receipts.

The renewed prosperity of the islands and the concurrent growth in population have stimulated private enterprise and the growth of small factories to supply current needs, particularly as regards building materials. Fishing is an important seasonal occupation of many villagers, and preserved fish, fish oils and other fish products are items of export. Agriculture plays a minor role. Barely 5 to 10 per cent of the total land area is under cultivation, and further expansion is restricted by the nature of the terrain, the concentration of water supply in limited areas and a feudalistic system of land tenure. Date gardens flourish in oases on Bahrain, Muharraq and Sitra Islands, but the supply equals less than one quarter of the local requirements. The government is endeavoring to promote the introduction of other crops, and maintains an experiment station at Budaiya.

The sea approaches to the archipelago are shallow, making it necessary for ocean vessels and oil tankers to anchor 2 to 4 miles from the shore. Bahrain and Muharraq, however, have good harbors which accommodate dhows and other shallow-draft vessels. Manama is an active trading center: coastal traffic is more or less continuous, while frequent steamer services are available to the northern Gulf ports and to India AND PAKISTAN.

p. 257 (e)

30: Gt. Britain G-5 (ca. 1918) 1920 MJ1 Saudi Arabia
BAHRAIN M22

228 pearl-trade during the war. Sea fisheries are also extensive, the fish being taken in nets and in tidal weirs or enclosures (*hadhrahs*) made of reeds, some of which surround large areas in the shallow waters round the coasts; 500 lb. of fish a day were supplied without
241 difficulty to the Indian Expeditionary Force in 1914. Agriculture is carried on by irrigation, the chief products being fruit (dates, citrons, limes, melons, figs, &c., but few of the first quality), lucerne, and a few vegetables; a great belt of date-groves on Bahrein Island runs S. from Manāmah to the village of Būri, a distance of about
231 7 miles. Domestic animals include about 2,000 donkeys, less than 100 horses owned by the Sheikh and his family, about 100 camels, chiefly used in carrying water to Manāmah for sale, and a small but fine local breed of cattle, in high repute for their milking qualities. Of the donkeys, some 200 are of the famous breed imported from Hasa, from 12 to 13 hands, and white in colour.

433 The chief handicrafts are sail-making, weaving of abbas, lungis, and checked sheeting, and the manufacture of mats from Hasa reeds. Palgrave described the *Bahārinah* as excelling in the crafts of the weaver, the tailor, the dyer, and the worker in metal, wood, or leather. Boa -building, with timber imported from India, employs about 200 carpenters: Bahrein builders can turn out an excellent forty-ton boat in less than a month. Many boats are sold to purchasers in El-Qatar and Oman.

504 Trade at the port of Manāmah was for years hindered by the unsatisfactory arrangements for handling cargo, distribution being
439 delayed, and goods left to deteriorate without any proper protection. In 1910 the control was given to a European, but in the following year native sentiment demanded native control, and two Arabs were appointed, with lamentable results. Since then matters have improved; a Hindu has been placed in charge, and the con-
[651] truction of a jetty and storage-shed has modified the worst of the former defects. The Sheikh is entitled by treaty to an *ad valorem* duty of 5 per cent. on merchandise. Bahrein is the principal market for the pearl-industry, the export of pearls in a good year attaining about £2,000,000. But it is also an important emporium for the east coast of Arabia, distributing merchandise from India and from countries bordering on the Persian Gulf, to El-Qatar, Qatif, and 'Oqair, from which last two ports goods are carried into the oases of Hasa and Qatif, and beyond into southern Nejd. This local trade is carried in native boats without manifests, so that exact statistics cannot be obtained.

439 The total average imports of Manāmah for the three years 1911–14 amounted to £2,061,038, and exports £2,106,766. During the